ENVIRONMENTAL CHEMISTS

Date of Report: 12/10/09 Date Received: 12/03/09

Project: % of Acid, PO M04955, F&BI 912032

Date Analyzed: 12/08/09

RESULTS FROM THE ANALYSIS OF AQUEOUS SAMPLES FOR SPECIFIC GRAVITY @ 15.56 °C

Sample ID
Laboratory ID

M04955
912032-01

Specific Gravity

1.05

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Date of Report: 12/10/09 Date Received: 12/03/09

Project: % of Acid, PO M04955, F&BI 912032

Date Analyzed: 12/08/09

RESULTS FROM THE ANALYSIS OF AQUEOUS SAMPLES FOR PERCENT ACID

Sample ID Laboratory ID Percent Acid

M04955 912032-01 2.0

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Date of Report: 12/10/09 Date Received: 12/03/09

Project: % of Acid, PO M04955, F&BI 912032

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AQUEOUS SAMPLES FOR SPECIFIC GRAVITY

@ 15.56 °C

Laboratory Code: 912032-01 (Duplicate)

Analyte	Sample	Duplicate	Relative Percent	Acceptance
	Result	Result	Difference	Criteria
Specific Gravity	1.05	1.04		0-2

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Date of Report: 12/10/09 Date Received: 12/03/09

Project: % of Acid, PO M04955, F&BI 912032

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF AQUEOUS SAMPLES FOR PERCENT ACID

Laboratory Code: 912032-01 (Duplicate)

			Relative	
	Sample	Duplicate	Percent	Acceptance
Analyte	Result	Result	Difference	Criteria
Percent Acid	2.0	1.9	5	0-20

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Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 More than one compound of similar molecule structure was identified with equal probability.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte indicated may be due to carryover from previous sample injections.
- d The sample was diluted. Detection limits may be raised due to dilution.
- ds The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb The analyte indicated was found in the method blank. The result should be considered an estimate.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht The sample was extracted outside of holding time. Results should be considered estimates.
- ip Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The result is below normal reporting limits. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js- The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the compound indicated is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The pattern of peaks present is not indicative of diesel.
- y The pattern of peaks present is not indicative of motor oil.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 10, 2009

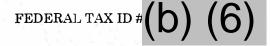


INVOICE #09ACU1210-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project % of Acid, PO M04955, F&BI 912032 - Results of testing requested by Gerry Thompson for material submitted on December 3, 2009.

1 sample analyzed for Specific Gravity @ \$30 per sample	\$	30.00
1 sample analyzed for Percent Acid Content		
@ \$75 per sample		75.00
Rush Charges (4 day) 60% of \$105.00	0=	63.00
Amount Due	\$	168.00



912032	SAMPLE CHAIN OF CUSTODY	MG 121	13/09	AIY
Send Report To Sensus Thompson Company Akaskan Coppen works	SAMPLERS (signature) PROJECT NAME/NO.	PO #	Page # TURNAROU □ Standard (2 We	eks)
Address 628 5. Harrie So City, State, ZIP Scorre up 98134	REMARKS	mo1955	Rush charges auf SAMPLE D	thorized by:
Phone # 266-571-6077 Fax # 26-382-4759	>		☐ Return samples ☐ Will call with in	

	ANALY							LYS	YSES REQUESTED									
Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	1 of Hish	Star, Guenty	•			1	Notes
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ENVIRONMENTAL CHEMISTS

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December 10, 2009

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 3, 2009 from the % of Acid, PO M04955, F&BI 912032 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU1210R.DOC